

3.2 Medical Requirements Overview

TABLE 3.2: MEDICAL REQUIREMENTS OVERVIEW

MEDB# and Title:	MEDB 1.13 Body Mass Measurement
Sponsor:	Medical Operations
IPT:	N/A
Category:	Medical Requirements
References:	SSP 50667 Medical Evaluations Document (MED) Volume B
Purpose/Objectives:	To monitor body mass changes in-flight
Measurement Parameters:	Body mass
Deliverables:	Assessment of body mass during long duration flights
Flight Duration:	> 30 days
Number of Flights:	All long duration flights
Number and Type of Crew Members Required:	All Crewmembers
Other Flight Characteristics:	N/A

3.3 Preflight Training**TABLE 3.3: PREFLIGHT TRAINING**

Preflight Training Activity	Description:	Training on the use of the Mass Measurement Device (MMD) is scheduled and conducted by the GCTC personnel in Star City.			
		Duration:	Schedule:	Flexibility:	Personnel Required:
	Schedule:	2 hrs.	To be scheduled by the GCTC	N/A	Crew and GCTC personnel
Ground Support Requirements Hardware/Software		Preflight Hardware:	Preflight Software:	Test Location:	
		Russian Body Mass Measurement Device	N/A	Russia/Star City	
Training Facilities		Minimum Room Dimensions:	Number of Electrical Outlets:	Temperature Requirements:	Special Lighting:
		8' X 10'	2 (220V) Russia 2(110V) U.S.	Ambient	N/A
		Hot or Cold Running Water:	Privacy Requirements:	Other:	
		N/A	Room free of distraction	N/A	
Constraints/Special Requirements:		Training must be completed within 1 year of flight.			
Launch Delay Requirements:		N/A			
Notes:		N/A			

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3.4 Preflight Activities (There are no preflight activities)

3.5 In-flight Activities

TABLE 3.5.1: IN-FLIGHT ACTIVITIES

In-Flight Activity	Description:	Body mass will be measured in-flight using the Russian Mass Measurement Device (MMD).				
	Schedule:	Activity:	Duration:	Schedule:	Flexibility:	Personnel Required:
		Body Mass Measurement	15 min.	FD 14, then monthly, and as clinically indicated	See constraints	Crewmember
Procedures:	In-flight procedures can be found within the Russian Operations Data File (RODF), Service Module, Medical Operations Book 2, MO-8 Body Mass Measurement.					
Constraints / Special Requirements:	May be conducted in sequence with the MEDB 1.2 Crew Medical Officer Health Status Evaluations. A FD 7 body mass measurement may be taken at the discretion of the Crew Surgeon.					
Photo / TV Requirements:	N/A					
Mission Extension Requirements:	N/A					
Landing Wave-Off Requirements:	N/A					
Data Delivery	Data/Report to Designated Recipients (Nominal/Contingency):					
	Results will be down linked the week following the measurement. Body mass data may be called down during Private Medical Conferences, MR017L, or anytime at the discretion of the Crew Surgeon. Data will be shared with the Clinical Nutrition Laboratory (MEDB 8.1).					

In-flight Activities, (cont.)**TABLE 3.5.2: IN-FLIGHT HARDWARE**

Hardware/Software Name	P/N
Mass Measurement Device:	5A1.540.156
Mass - meter stand	N/A
Platform	N/A
Interface Device	N/A
Special Purpose Calculator	N/A
Combination Inertia Converter	N/A
Kit Bag	N/A
Kit Bag	N/A

Note: MMD is Russian equipment. Specifications may vary.

3.6 Postflight Activities (There are no postflight activities)**3.7 Summary Schedule**

TABLE 3.7: SUMMARY SCHEDULE

ACTIVITY	DURATION	SCHEDULE	FLEXIBILITY	PERSONNEL REQUIRED	CONSTRAINTS
Preflight Training					
Body Mass Measurement Device	2 hrs.	To be scheduled by the GCTC	N/A	Crew and GCTC personnel	N/A
Preflight : N/A					
In-flight					
Body Mass Measurement	15 min	FD 14, then monthly, & as clinically indicated	N/A	Crewmember	N/A
Postflight : N/A					
Postflight Debrief - N/A					